

28

Calcium succharate or "semisuccharate." J. Lewin and J. Dohkowolski, *Gaz. Cukrownicza* 68, 117-19 (1948); *Sugar Ind. Abstracts* 10, No. 4, 72-3 (1948).— It has been assumed that CaO in defecation juice gives the monosaccharate $C_{11}H_{20}O_6 \cdot CaO$. The di-lime or tri-lime saccharate ($2CaO \cdot C_{11}H_{20}O_6$ or $3CaO \cdot C_{11}H_{20}O_6$) has been considered impossible in hot defecation, as the solv. of CaO is very slight (0.24% CaO in 13% sugar solution at 30°). Sillin (*Technology of Beet Sugar Production*, 1948) and others doubt the existence of a monosaccharate, and suggest an ionizable compd. (such as $C_{11}H_{20}O_6 \cdot Na$ from NaOH and sucrose); the reason for this is that sucrose has a dissoci. const. of 3×10^{-11} , acting as a weak acid and giving only one H ion. One would hence expect to get the compd. $Ca(C_{11}H_{20}O_6)_2$, which would hydrolyze back to $Ca(OH)_2$ and sucrose. For this compd., CaO solv. in 13% sugar soln. should be 1.06%; hence hydrolysis must bring about a reversible reaction, increasing at higher temps. In pure water at 81°, 0.073% CaO dissolves; then, if there is 0.24% CaO in defecated juice, 0.168% will be combined CaO, and sucrose present as disaccharate will be 2.05% (or 18.8% of the total sucrose). With cold defecation, at 40°, CaO solv. is 0.99%, free CaO is 0.11%, and hence combined CaO is 0.88%, and sucrose as disaccharate equals 10.8% (83% of the total sugar). R. D. H.

DOBROWOLSKI, J.

2018

541.8 : 545.56

Dobrowolski J. The Influence of Some Compounds on the Velocity of
Copper Solubility in Dilute Nitric Acid.

„Wpływ niektórych związków na szybkość rozpuszczania miedzi w roztwórionym kwasie azotowym”. Przemysł Chemiczny. No. 9, 1952, pp. 386–398, 7 figs., 6 tabs.

Investigations were made into the influence of some organic and inorganic substances on the solubility of copper in dilute nitric acid. Oxidising substances produce a marked acceleration of the reaction. Further experiments dealt with the influence of colloidal substances, of surface active compounds (alcohols, organic acids and amines) as well as urea, pyridine, chinoline and potassium halides. All these compounds excluding potassium iodide have been found to be good inhibitors of the reaction of copper solution in dilute nitric acid.

(1)
Chem
9-2-88

DOBROWOLSKI, JAM

[Electrometric determination of mercuric salts without the auxiliary source of current. Jan Dobrowski, Ldr. Tewes-Nauk., Wydział VII, Państwowy Instytut Chemiczny, Warsaw, Poland. (English summary).—Electrometric detn. of Hg salts were made in an app. consisting of 2 half cells (the auxiliary cell contained satd. $Hg_2(No_3)_2$ and the standard cell contained titrated KI soln.); Pt-wire electrodes (3 cm. long; 0.5 mm. diam.), an electrolytic bridge filled with a satd. soln. of KNO_3 , and a galvanometer. The soln. to be analyzed was run into the titrated KI soln., stirred, the circuit was then closed for a short time, and a reading was made on the galvanometer.]

L. J. Piotrowski

DOBROWOLSKI, J.

"Electrolytic plating industry." p. 29
(Mechanik, Vol 25 No 1 Jan 53 Warszawa)

DOBROWOLSKI, J.

J. DOBROWOLSKI, "Natural isotope of neptunium (Np.) Chemical News
No. 1, January 1955, pp. 1-64

DOBROWOLSKI, J.

Poland/Analytical Chemistry - General Questions, G-1

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61805

Author: Dobrowolski, J.

Institution: None

Title: Potentiometric Analysis -- Its Fundamentals and Some Applications
in Pharmaceutical Investigations and Practice

Original

Periodical: Analiza potencjometryczne-jej zasady oraz niektore zastosowania
w badaniach i praktyce farmaceutycznej, Acta Polon. pharmac.,
1955, 11, Dodatek: Pam. II. Ogólnopols. Zjazdu nauk. Pol.
towarz. farmac. Łodzi, 118-120; Polish

Abstract: In potentiometric determination of some alkaloids (I) 2 Pt-
electrodes connected through a resistance and galvanometer are
placed in equal volumes of a dilute solution of Wagner's reagent
(1 g J₂ and 0.2 g KJ in 1 l), connected by an electrolytic bridge.
After addition of a sample of I and formation of a precipitate a
concentration cell is formed. To the second solution is added

Card 1/2

Poland/Analytical Chemistry - General Questions, G-1

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61805

Abstract: such an amount of a solution of I that the emf of the cell is decreased to 0; 0.02 g of quinine sulfate are determined with an average error of 0.3%. By the described method are determined also other I of cinchona bark and papaverine. Strychnine, codeine, pilocarpine are not determined.

Card 2/2

Dobrowolski J.

463d

26. Application of the method of differences to the determination of sodium with a flame photometer. J. Dobrowolski and N. Wyszyński (Dept. of General Chem., Pomeranian Med. Acad., Szczecin, Poland). *Chem. Anal.*, Warsaw, 1957, 2 (1), 11-21.
—On different occasions, the absolute values for the deflections of the galvanometer of a flame photometer differ for the same concn. of Na, but the differences of these values for a series of concn. are nearly constant. To plot a calibration curve, several series of measurements are made on standard Na soln. (10 to 100 µg of Na per ml) and the mean differences of the galvanometer readings for each concn. of Na are calculated. When a sample soln. of Na is analyzed, a standard soln. (concn. \approx 50 µg of Na per ml) is also tested, and the appropriate differences are added to or subtracted from the reading obtained to give a series covering the concn. range for the calibration curve. The Na content of the sample soln. is read from the new curve. The relative error for concn. $<$ 50 µg of Na per ml did not exceed 0.5%. The method may also be applied to the flame-photometric determination of other metals.

K. F. Sporre

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NY

DOBROWOLSKI, J.
DOBROWOLSKI, J.

B. Nekrasov's General Chemistry: a book review.

p. 355 (Wiadomosci Chemiczne) Vol. 11, no. 3, Mar. 1957, Wroclaw, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

COUNTRY : Poland
CATEGORY :
ABS. JOUR. : RZKhim., No. 1959, No. 86055

AUTHOR : Dobrowolski, J.

INST. :
TITLE : Complexometric Determination of Thorium,
Lanthanum, and Trivalent Cerium with the
Use of Carminic Acid.

ORIG. PUB. : Chem. analit., 1958, 3, No 3-4, 609-614

ABSTRACT : It was found that solutions of carminic acid (I), at pH less than 7, which are yellow, acquire a violet coloration in the presence of La^{3+} and Ce^{3+} ; on addition of Th the solutions acquire a blue color. For a complexometric determination of Th, using I as indicator, there are added to 3 ml buffer solution of pH 2 (mixture of 0.1 N HCl and 0.1 N glycol), 0.05-1.00 ml of solution being analyzed, the mixture is heated to boiling, several drops of 1% ethanol solution of I are added, and titration is carried out with 0.01-0.1 N solution of Complexen III, until the blue color of the solution changes to yellow. On titration of 0.3 mg Th the determination error is less than 1%; in

CARD: 1/3

86

COUNTRY : Poland
CATEGORY :

E-2

ABS. JOUR. : RZKhim., No. 1959, No. 86055

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : the case of larger amounts (more than 6 mg Th) it drops to less than 2%. On determination of La or Ce (or of their sum) there are added to 3 ml buffer solution of pH 3.7, 0.05-1.00 ml of solution being analyzed, and titration with a solution of Complexon III is carried out until the violet color of the solution changes to yellow. Accuracy of determination is the same as in the case of Th. If Th is being determined in solutions containing La and Ce in approximately the same amounts, titration is carried out without their separation (Th content in the sample must be at least 5 mg); determination error is less than 3.5%. On determination of La and Ce in the presence of Th, the Th

CARD: 2/3

DOBROWOLSKI, J.

J. Szulc's Cwiczenia z chemii ilosciowej (Exercises in Quantitative Chemistry) p a
book review. p. 489. Foamy vinyl polychloride. p. 491. Ch. Increased export of chemical
products. p. 493

WIADOMOSCI CHEMICZNE. (Polskie Towarzystwo Chemiczne)
Wroclaw. Vol. 12, no. 8, Aug. 1958
Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959
Uncl.

Dobrowolski, J.

5

1-RDW

4E3L

4E2C (j)

298 (1/3)

5984 66,094,493; 647,582,1; 540,74
Rodziewicz W., Dobrowolski J., Wojnowski W. On the Chlorination of
Phenol in the Presence of Tellurium and its Compounds.

"O chlorowaniu fenolu w obecności telluru i jego związków". Prze-
myst Chemiczny. No. 10, 1958, pp. 645-648, 5 figs., 5 tabs.

The catalytic activity of tellurium and its compounds (TeCl_4 , $\text{H}_2\text{TeO}_4 \cdot 2\text{H}_2\text{O}$, and K_2TeO_4) is established in the phenol chlorination reaction. It has been found that the use of tellurium, TeCl_4 , and $\text{H}_2\text{TeO}_4 \cdot 2\text{H}_2\text{O}$ lead to the preparation of pentachlorophenol from phenol or intermediate chlorophenols. The results obtained characterize the trend of phenol chlorination in the presence of various amounts of Te or TeCl_4 , $\text{H}_2\text{TeO}_4 \cdot 2\text{H}_2\text{O}$, and K_2TeO_4 , as well as in the presence of tellurium in a battery of four serial reactors. It has been established that under the given conditions, the rate of the reaction of phenol chlorination is doubled when the amount of tellurium added as catalyst is increased tenfold (in the range 0.01 - 1% Te).

DOBROWOLSKI, J.; WYSZINSKI, K.

Radiometric determination of sodium in blood serum.
p. 207.

CHEMIA ANALITYCZNA. (Komisja Analytycana Polskie Akademii Nauk i Naczelnego
Organizacj Techniczna) Warszawa. Poland. Vol. 4, no. 1, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 8, August 1959
Unclu.

DOBROWOLSKI, J.

Distr: 4E3c 2 cys/4E2c

Research on some complex compounds containing TeCl_4^- anion. Jan Dobrowolski and Ryszard Kowea (Wyższa Szkoła Pedagogiczna, Gdańsk, Poland). Roczniki Chem. 33, 1459-64 (1950) (English summary).—The procedure of Ripan and Pallade (CA 43, 41074) does not yield H_3TeCl_4 , but $(\text{NH}_4)_2\text{TeCl}_4$ (I). I dissolved in HCl, with subsequent evapn., gives I with no loss of NH₃. Ti_3TeCl_4 was obtained by action of TeCl_4 or I in HCl soln. on Ti_3SO_4 in 50% H_2SO_4 or by rubbing stoichiometric amts. of dry TeCl_4 with TiCl₄.

A. Kreglewski

5
1-929 (CNB)
3

DOBROWOLSKI, J.

E. Fuglewicz' Chemia analityczna jakosciowej (Qualitative Analytical Chemistry); a book review. p. 345

WIADOMOSCI CHEMICZNE. (Polskie Towarzystwo Chemiczne) Wroclaw, Poland.
Vol. 13, no. 6, June 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

DOBROWOWSKI, JHM

Distr: 4E2c(j)/4E3d

✓ Diazonium hexachlorotellurites. Jan Dobrowolski and Ryszard Korewa (Wyższa Szkoła Pedagogiczna, Gdańsk, Poland). *ZOCHEM. Chem.* 34, 387-74 (1960) (English summary).—The following yellow cryst. diazonium hexachlorotellurites (I) were obtained from solns. of hexachlorotellurous acid with the resp. diazonium chlorides in HCl at 0°: $(PhN_2)_2^+$, $(C_6H_5N_2)_2^+$, $(m-O_2NC_6H_4N_2)_2^+$ (II), $p\text{-H}_2O_2$, $\alpha\text{-H}_2O_2$, and $m\text{-}$ and $(p-ClC_6H_4N_2)_2^+$, TeCl₄. I were more sol. than analogous salts with an aromatic or heterocyclic cation but less sol. than salts contg. an inorg. cation. Thermal stability of I increased with the size of the cation and in the presence of NO₂ and Cl group. The resistance to hydrolysis depended on the basic character of the substituent. A. Krogulewski

7
4
1-0W (SW)
1-74° (VB)
1-10W

2

DOBROWOLSKI, Jaroslaw

Resection of the stomach with Rydygier's method. Polski przegl.
chir. 33 no.10:1107-1116 '61.

1. Z Oddzialu Chirurgicznego Szpitala Wojewodzkiego im. M.Kopernika
w Gdansku Ordynator: dr S. Golabowski.
(GASTRECTOMY)

S/081/62/000/023/022/120
B156/B186

AUTHORS: Dobrowolski, Jan, Kokot, Zbigniew

TITLE: Hexaoxotellurates of N-acetyl derivatives of certain aromatic amines

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 23, 1962, 137, abstract 23V69 (Roozn. chem., v. 35, no. 6, 1961, 1555 - 1561 [Pol.] summaries in Russ. and Eng.])

TEXT: Compounds of $(RNHCOCH_3)_n \cdot H_2[TeCl_6]$ type have been obtained from reactions between $H_2[TeCl_6]$ and aromatic N-acetylamines in conc. solutions of HCl. With R = C_6H_5 , n = 2 and 4; with R = o- $CH_3C_6H_4$, n = 2; with R = n- $CH_3C_6H_4$, n = 3, with R = 2,5-(CH_3)₂ C_6H_3 , n = 2, and with R = 3,4-(CH_3)₂ C_6H_3 , n = 4. All the compounds produced form anisotropic yellow crystals. The solubilities of the compounds in 7 N HCl at 20°C, and also the maximum concentrations of HCl at which their hydrolysis still occurs, are determined. [Abstracter's note: Complete translation]

Card 1/1

Dept. General Chem, Normal School, Gdansk

UNSZLICHT-SOWINSKA, Janina; WOJNAROWSKI, Marian; DOBROWOLSKI, Jan

Changes in the concentration of sodium, potassium and free hydrochloric acid and of general acidity of gastric contents in children with rheumatic disease treated with delta cortisone. Pediat. Pol. 37 no.5:505-508 My '62.

1. Z I Kliniki Pediatricznej AM w Warszawie Kierownik: prof. dr med. R. Baranski i z Laboratorium Zespolu Klinik Dziecięcych Kierownik Laboratorium: lek. med. M. Kolinska.

(GASTRIC JUICE) (SODIUM metab) (POTASSIUM metab)
(RHEUMATIC FEVER ther) (CORTISONE ther)

DOBROWOLSKI, Jan

Dynamics of alkaloid accumulation in tobacco treated with
gibberellin. Prace przyrod roln Szczecin 19 no. 2:1-34
'64.

I 22806-66 EWA(h) JXT(CZ)

ACC NR: AP6010796

SOURCE CODE: P0/0053/66/000/003/0143/0147

45
BAUTHOR: Markowski, J.; Dobrowolski, J.ORG: Department of electronic systems, Warsaw Engineering College (Katedra
Układow Elektronicznych, Politechniki Warszawskie.)TITLE: L-band tunnel diode amplifier

SOURCE: Przeglad elektroniki, no. 3, 1966, 143-147

TOPIC TAGS: tunnel diode, amplifier design, tuned amplifier, UHF
amplifier, microwave component

ABSTRACT: An L-band tunnel diode amplifier with a circulator was developed at the Department of Electronic Systems of the Warsaw Polytechnic Institute. Parameters of the MDT-4 diodes are given in Table 1. The characteristic impedance of the circulator was 50 ohm.

Table 1. Diode parameters

Diodes	I_p mamp	U_p mv	I_v mamp	U_v mv	R_N ohm	L_d nh	r_s ohm	C_0 pf	f_r Gc	f_{rf} Gc
37	1,05	65	0,15	325	74	1,6	2,0	5,0	1,78	2,62
57	0,91	58	0,12	350	95	0,5	2,0	3,1	4,05	9,12

Card 1/4

UDC: 621.396.96

L 22806-66

ACC NR: AP6010796

Table 2. Amplifier parameters

Diode	37	57
Diode bias voltage range at steady gain of the amplifier	72—192 v	59—280 v
Maximum stable amplification	22.0 db	15.5 db
Relative bandwidth at $K_{po} = 10$ db	1.3 %	2.68%
Gain-bandwidth product	$60 \frac{v}{v} Mc$	$120 \frac{v}{v} Mc$
Noise figure	6 db	6 db

Card 2/4

L 22806-66
ACC NR: AP6010796

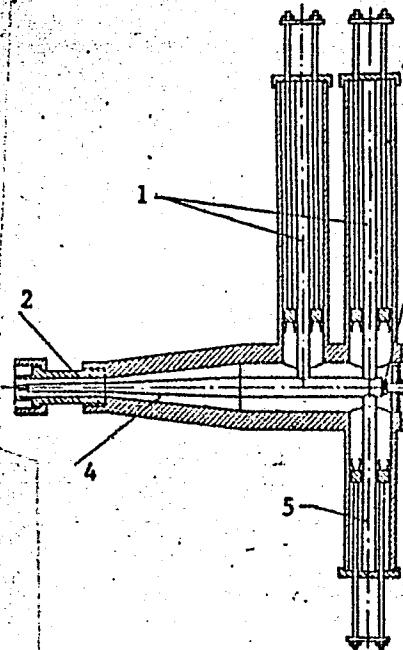


Fig. 1. Structural diagram of the amplifier

- 1 - Impedance transformer stubs;
- 2 - N-type coaxial input transition;
- 3 - tunnel diode;
- 4 - amplifier main line;
- 5 - tuning stub.

Card 3/4

L 22806-66

ACC NR: AP6010796

O

The middle-band frequency of the amplifier was 1420 Mc. To match the circulator impedance with that of the diode, an impedance transformer with two tuning stubs spaced $\lambda_0/8$ apart was used. A parallel induction tuner was also a part of the amplifier. A structural diagram of the amplifier is shown in the figure. A coaxial cable forms the main line of the structure. The tunnel diode is mounted at the end of the cable at the point where the electric field of the TEM mode reaches the maximum. The stubs are mounted perpendicular to the cable. Diode polarization voltage is applied through the screw which fastens the diode to the central wire of the cable. A capacitor of 80 pf is used to separate the hf system of the amplifier from the diode bias circuit. The amplifier parameters for each of the diodes used are given in Table 2. Orig. art. has: 6 figures and 2 tables. [KM]

SUB CODE: 17, 09 / SUBM DATE: 19Jul65 / ORIG REF: 001 / OTH REF: 009
ATD PRESS: 4229

Card 4140da

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000410710001-7

Dobrowolski J.

Influence of the Williams rotation on nitrifying and denitrifying capacity of Osiny soils. J. Dobrowolski (Roczn. Nauk roln., 1951, G70, A, 148-149).
P. S. Arup.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000410710001-7"

DOBROWOLSKI, J.

"Training men in hoisting." p. 27. (Przeglad Gorniczy, Vol. 10, no. 1, Jan 54,
Stalinogrod)

SO: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Unclassified

DOBROWOLSKI, J.

Causes of accidents caused by hoisting machinery operators. p. 285. (PRZEGLAD GORMICZY, Vol. 10, No. 7/8, July/Aug. 1954, Stalinograd, Poland)

SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

DOBROWOLSKI, J.

Methods of preventing accidents in mining. p. 405.
(PRZEGLAD GORNICZY. Vol. 12, no. 11, Nov. 1956, Katowice, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.
Uncl.

DOBROWOLSKI, J.

Accidents in mines and the age and experience of the crew. p. 199.

PRZEGLAD GORMICZY. Katowice, Poland, Vol. 5, no. 4, Apr. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 9, September, 1959.
Uncl.

SZYSZKO, Stanislaw; DOBROWOLSKI, Josef; FUDELSKI, Jozef

Functional restoration of the lung following traumatic rupture
of the main bronchus treated surgically. Pol. tyg. lek. 19
no.32:1245-1246 10 Ag '64.

1. Z I Kliniki Chirurgicznej Slaskiej Akademii Medycznej w
Zabrze (kierownik: Kliniki: prof. dr Stanislaw Szyszko).

DOBROWOLSKI, Jozef

Right traumatic diaphragmatic hernia. Pol. przegl. chir. 37
no.7:700-703 Jl '65.

1. Z I Kliniki Chirurgicznej Slaskiej AM w Zabrzu (Kierownik:
prof. dr. S. Szyszko).

DOBROWOLSKI, Jozef

Ascending bronchography. Pol. tyg. lek. 19 no. 51:1960-1961
21 D '64

1. W I Kliniki Chirurgicznej Slaskiej Ademii Medycznej
w Zabrzu (Kierownik: prof. dr. med. Stanislaw Szwedko).

DOBROWOLSKI, Jozef

Contribution to the diagnosis of coin lesions of the lung-hamartoma. Gruzlica 32 no.12±1099-1104 D '64

1. Z I Kliniki Chirurgicznej Slaskiej Akademii Medycznej
w Zabru (kierownik: prof. dr. med. S. Szyszko).

DOBROWOLSKI, Jozef; GLOWACKA, Roza; SZYSZKO, Stanislaw

Unilateral clear lung syndrome. Gruzlica 33 no.11:1225-1230
N° 65.

1. w I Kliniki Chirurgicznej (Kierownik: prof. dr. med. S. Szyszko)
i Zakladu Radiologii Slaskiej AM w Zabrzu (pelniacy obowiazki
Kierownik: doc. dr. med. B. Romanowski).

DOBROWOLSKI, Juliusz; DORABIALSKA, Alicja; OGLAZA, Jan

Application of isotope ^{35}S to research on the solubility of BaSO_4 in a series of water solutions. Nukleonika 7 no.9:581-584 '62.

1. Instytut Badan Jadrowych, Polska Akademia Nauk, Warszawa, i
Politechnika, Lodz.

DOBROWOLSKI, Juliusz; OGLAZA, Jan

Application of the isotope ^{110}Ag to studies on the solubility
of metallic silver and silver chloride in aqueous solutions of
zinc sulfate. Nukleonika 8 no.1:79-81 '63.

1. Instytut Badan Jadrowych, Warszawa 9.

DOBROWOLSKI, K.

J. Hambergren, an unknown evolutionist of the pre-Darwinian period. p. 458.
(KOSMOS BIOLOGIA. VOL. 6, no. 4, 1957. Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

DOBROWOLSKI, K.

First ecologic observations of avifauna on Hel Peninsula and in Puck Bay. p. 67

EKOLOGIA POLSKA. SERIA B. (Polska Akademia Nauk. Komitet Ekologiczny)
Warszawa, Poland. Vol. 5, no. 1, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

DOBROWOLSKI, Kazimierz, mgr inz.

Problem of usefulness of soils for construction purposes.
Przegl tech 84 no.62:3 29 D'63.

DOBROWOLSKI, Kazimierz (Warszawa)

On geotechnical and geologic engineering documentation as well as
standardization of rules in soil testing for building purposes.
Przegl budowl i bud mieszk 36 no.3±152-154 Mr '64.

[DOBROWOLSKI, K.]

Dobrowolski K.

Dobrowolski K., Eng. "The Results of Eliminating Mechanical Sludge from Railway Engine Boilers." (Wyniki mechanicznego oczyszczania kotłów parowych). Przegląd Kolejowy, No. 10, 1949, pp. 310-312.

Two years of results in sludge disposal in boilers by means of an apparatus designed by the author and fitted to 30 railway engines. Savings effected in increasing the run of the engines, in fuel economy and in improved boiler maintenance, as a result of fitting this apparatus to boilers.

SC: Polish Technical Abstracts No. 2, 1951

DOBROWOLSKI, L.

Allergy in tuberculosis. Polski tygod. lek. 7 no. 45:1478-1484
10 Nov 1952.
(CLML 24:1)

DOBROWOLSKI, Lucjan (Warszawa, ul. Iwowska 4, m.3)

Problem of resistance of *Mycobacterium tuberculosis* to drugs.
Polski tygod. lek. 9 no.23:720-721 7 June 54.
(*MYCOBACTERIUM TUBERCULOSIS*, effect of drugs on,
resist.)

EXCERPTA MEDICA Sec.15 Vol.10/5 Chest Diseases May57

1345. DOBROWOLSKI L. Zakł. Epizootiol. Wydz. Weter. S.G.G.W., Odd. Chor. Prucnych Szpital, Milanówku, *Wpływ nerwu błędnego na przebieg gruźlicy doświadczalnej. Influence of the vagus nerve on the course of experimental tb POL. TYG. LEK. 1956, 11/33 (1441-1444)

In his experimental investigations the author calls attention to the fact that there are no isolated disorders of separate factors of the vegetative system but the disturbance of their mutual balance must be considered. The aim of the present investigations is to explain what section of the vegetative system is taking the greater part in transferring and receiving the stimuli, conditioning the influence on the specific process; the more so as the action of an unspecific stimulus upon any part of the human or animal organism may cause the disorders in innervation. Although both vagus nerve and sympathetic nerve are mixed nerves, drugs were applied which affect mostly the vagus nerve. The rabbits infected with the bovine tb strain were classified into 4 groups. Sectional and histopathological investigations showed that in a group of animals which received the prostigmine injections, the development of tb was inhibited; in a group of animals which received atropine a certain intensification of development of the specific process was noted; in case, however, of introducing an excessive stimulus (silico-choline mixture) an aggravation of development of the specific process took place as well. Accidentally in one rabbit a physiological stimulus was observed in the form of last stage of pregnancy. It caused complete inhibition of the development of tb in spite of the rabbit's positive tuberculin reaction and a focus of local infection. Probably the vegetative system is at the same time the transmitter of stimuli of the endocrine glands, especially to the adrenal glands.

Dobrowolski - Warsaw (XV, 5)

DOBROWOLSKI, Leszek, inz.

Current problems in mechanical dressing of Polish copper ores. Rudy
i metale 9 no. 2:56-59 F 64.

LEGG. INVESTIGATION OF THE EFFECT OF SIZING AND STIRRING OF THE CHARGE ON THE QUALITY OF COKE MADE USING HEAVILY CAKING COALS.

Teyda, J. and Gostkowska, H. (Kole, Szczecin, Dep. Coke, Mar. 1956, Oct.-Dec. 1956, vol. 1, 14-143). It was found that the quality of coke increased with decreasing size of charge. The quality of coke obtained from the same charge was improved when stirring of the coke oven charge and without. (L).

POLAND / Chemical Technology. Processing of Solid Fossil Fuels. H-22

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 78999.

Author : Dobrowolski, M., Gostkowska, H.

Inst : Not given.

Title : The Effect of Tamping Upon the Quality and Yield of Coke.

Orig Pub: Koks, smola, gaz, 1957, 2, No 6, 253-259.

Abstract: Experimental carbonization with and without tamping of a charge was carried out under comparable conditions in coke ovens of Otto's system. It was demonstrated that the volume weight of a charge can be increased up to 30% with tamping. The coke produced with the application of tamping had a lesser wearability, but practically the same drum test (Micum's method) as in the

Card 1/2

POLAND / Chemical Technology. Processing of Solid Fossil Fuels. H-22

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 78999.

Abstract: case without tamping. The efficiency of ovens can be increased by 8-10% by tamping. It was mentioned that for a diversified evaluation of tamping, additional investigations are required: grain size, degree of tamping, temperature conditions in the chambers and other parameters.

Card 2/2

46

DOBROWOLSKI, Marian

Session of the Polish Academy of Sciences together with the Committee for the Celebration of Poland's One Thousand Years on "the Origins of the Polish State." Nauka polska 8 no.3:178-184 Jl-S '60.

1. Komitet Obchodow Tysiąclecia Państwa Polskiego, Warszawa.

DOBROWOLSKI, R.

Cadres of engineers. p. 253.

CHEMIK, Vol. 7, No. 9, Sept. 1954, Warsaw, Poland

SO: East European Accessions List, Lib. of Cong., Vol. 5, No. 10, Oct. 1956.

DOBROWOLSKI, R.

Teams of workers starting production as a link between construction and production. p. 150
Vol. 8, no. 5, May 1955. CHEMIK. Katowice, Poland.

So: Eastern European Accession. Vol 5, no. 4, April 1956

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B-I-2

Reduction of peroxide by means of ferric sulphate.
 Z. Z. BULGAROVICH and N. DUMASCHOVICH (Przemysl Chem., 1924, 10, 200-222).—*Hydrogen peroxide* (3-0%) is heated at 100°-120° for 2 hr. with potassium m.p. 60°, the solid residue washed with water, dried, and earth oil, benzene, and ether added until solution. Earth oil (II) (3-0%) contains 30% H_2O_2 and carbon with (I) (4-0%), (III) (0-4%), and (IV) (0-05%), when a columbianite, tantalite, or mica is used. The peroxide in the type (I) can easily be regenerated, leaving a mixture of (II), Fe_2O_3 , carbon, and $FeCl_3$. The above method has many advantages over the usual H_2SO_4 method. R. T.

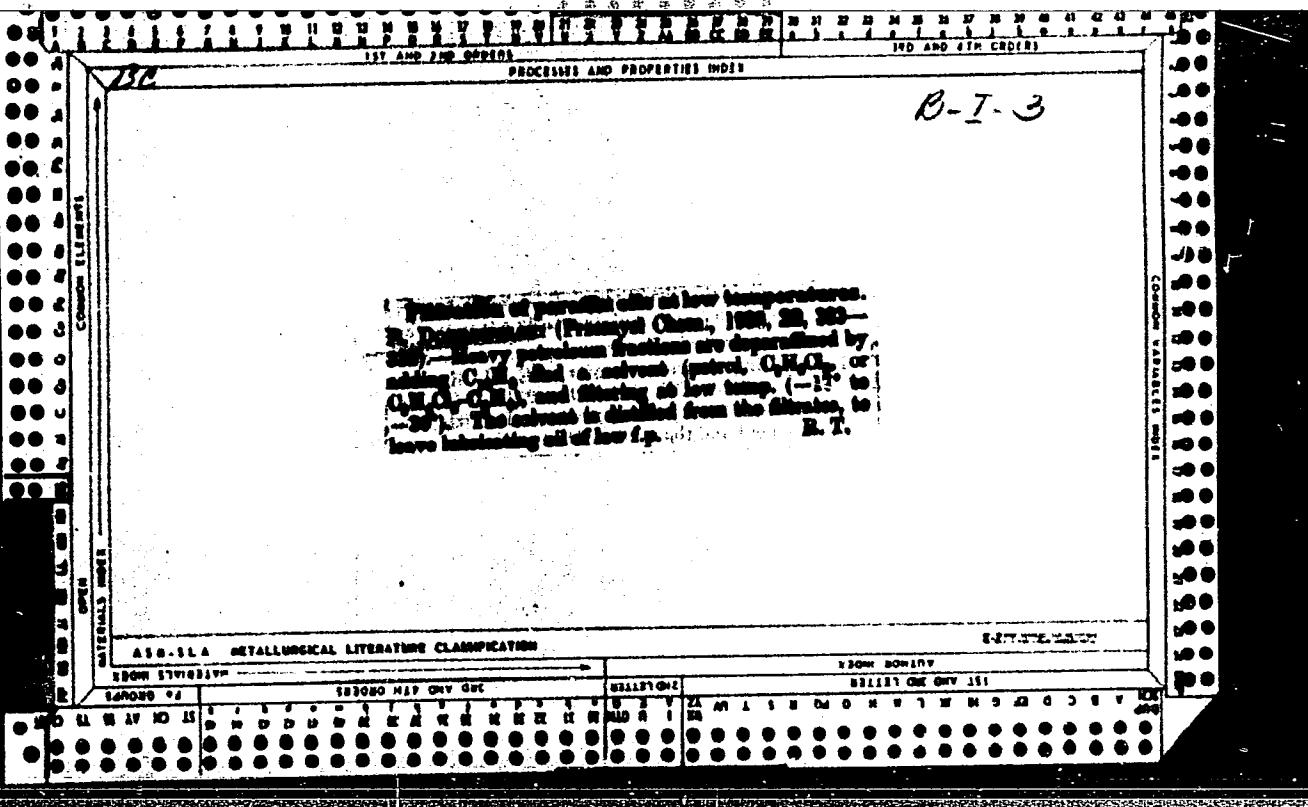
H. T.

44-11A METALLURGICAL LITERATURE CLASSIFICATION

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DOBROWOLSKI, R.

"Multiretort constant distillation of synthetic fatty acids." p. 203. (Chemik.
Vol. 6, no. 7/8, July/Aug. 1953, Katowice.)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress,
Feb. 1954, Uncl.

DESPROYECTAR

POLON

✓ Multicolumn continuous distillation, R. Dobrowolski.
Przemysl Chem. 5, 410-26 (1931).—Multicolumn app. was applied to dist. of crude fatty acids. Five small columns were used; in each one only one fraction was fractionated. The most corrosive acids (C_1-C_4) were distd. in the first column made of porcelain, and the least corrosive acid, C_6 , was distd. in the fifth column made of chrome steel. The advantages of this distn. are: (1) differentiation of column according to variables as temp. and vacuum, (2) differentiation of the material used in producing the columns, and thus saving of the acid-proof materials, (3) lesser use of thermal energy, (4) better quality of the products, and (5) saving of steel. Gene A. Wozny.

Dobrowol'ski, R.

Distr: 4E3d

L251. THE PROBLEM OF SYNTHOL IN POLAND. Dobrowol'ski, R. (Przeg. chos. (Chim. Ind., Warszaw), 1955, vol. 7, 347-356; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1957, (13), 15554). A technical and economic review is made of different methods of producing synthetic fuels, and of the Bergius, Fischer-Tropsch and Hydrocol processes. Different versions of the Fischer-Tropsch process are examined in detail, mainly on the basis of German data. A diagram is given of a proposed scheme for converting Synthol into liquid fuel, lubricants and primary synthetic products.

DOBROWOLSKI, R.

Problem of the Synthine process in Poland. p. 36.

CHEMIK. (Stowarzyszenie Inżynierów i Techników Przemysłu Chemicznego) Katowice. Vol. 8, no. 2, Feb. 1955

Sc. East European Accessions List. Vol. 5, no.1, Jan. 1956

4630. COMBINED PRODUCTION OF CARBON AND NITROGEN COMPOUNDS.

Chemik (Gliwice), 1954, vol. 9, no. 4, p. 101. IN CHEM.

CO₂ dioxide was removed from the gas going to my carburetor by water. Ammonium liquor. One ton of products can be produced from 1.21 tons of coal. Ammonium carbonate can be produced even when coke or natural gas is used as raw material for it.

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DOBRGWOLSKI, R.

Economy Based on coal. p. 99
(CHEMIK, Vol. 10, no. 4, Apr. 1957, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9 Sept. 1957 Uncl.

DOBROWOLSKI, S.

DOBROWOLSKI, S. The authentication of welders. p. 414

Vol. 8, no. 11, Nov. 1956

PRZEGLAD KOLEJOWY

TECHNOLOGY

Warszawa, Poland

So: East European Accession, Vol. 6, no. 2, 1957

DOBROWOLSKI, Tadeusz.

Testing the daily lighting of factories. Przegl elektrotechn;
Suppl.: Techn swietl 3 no.1:69-72 Ja'64.

1. Biuro Studiow i Projektow Typowych Budownictwa
Przemyslowego, Warszawa.

DOBROWOLSKI, T.

DOBROWOLSKI, T. Designing general inside lighting without calculations. p. 244.

Vol. 15, No. 11, Nov. 1955.
WIADOMOSCI ELECTROTECHNICZNE
TECHNOLOGY
Warszawa, Poland

So: East European Accession, Vol. 5, No. 5, May 1956

DOBROWOLSKI, T.

Laboratory method of testing daylighting on models of buildings.

p. 417
Vol. 31, no. 6, June 1955
PRZEGLAD ELEKTROTECHNICZNY
Warszawa

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 2
Feb. 1956

DOBROWOLSKI, T.

DOBROWOLSKI, T.

Index tables of the power need for lighting.

P. 181 (WIADOMOSCI ELEKTROTECHNICZNE) (Warsaw, Poland) Vol. 17. no. 6. June 1957

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7. No. 5. 1958

DOBROWOLSKI, T.

"Congress of the French Lighting Association."

p. 316 (Wiadomosci Elektrotechniczne) Vol. 17, no. 12, Dec. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

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Remarks on recent trends in external lighting of cities and villages.
Wiad elektrotechn 19 no.7:212-215 Jl '59.

DOBROWOLSKI, T.

The Polish Committee on Lighting. Wiad elektrotechn 19 no.9:269-270
S '59.

DOBROWOLSKI, Tadeusz, mgr., inz.

Operational results of electric lighting installations in industrial enterprises. Energetyka przem 10 no.2:55-59 &62.

1. Biuro Studjow i Projektow Typowych Budownictwa Przemyslowego.

DOBROWOLSKI, Tadeusz

Surveying electric lighting in industrial plants. Wied elektrot
30 no.3:77-80 '62.

DOBROWOLSKI, Tadeusz

The mercury-vapor tube of corrected light color and its application
in practice. *Wiad elektrotechn* 30 no.6:203-207 Je '62.

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Current trends in electric lighting of industrial plants. Wiad
elektrotechn 28 no.1:14-16 Ja '61.

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Lighting and labor safety. Wiad elektrotechn 28 no.2:42-44 F
'61.

DOBROWOLSKI, Tadeusz

Testing of street lighting. Wiad elektrotechn 39 no.12:399-400
D '62.

DOBROWOLSKI, T.

Fifteenth Session of the International Commission on Illumination. Wiad elektrotechn 31 no.10:241-242 O '63.

1. Sekretarz Naukowy Polskiego Komitetu Oświetleniowego,
Warszawa.

DOBROWOLSKI, Tadeusz

Modern lighting of industrial accommodations. Wiad elektrotech
33 [i.e. 32] no. 2:39-41 F '64.

BUCZYLO, Edward; DOBROWOLSKI, Witold

Modern methods of regenerating postpickling solutions.
Problemy proj hut maszyn 10 no.10:302-306 0 '62.

1. Prozamet, Lodz.

JAZDOWSKA, Bozenna; DOBROWOLSKI, Wojciech

Vascularization of the hypophysis in sheep. Endokr. Pol. 16
no.3:269-282 My-Je'65.

1. Polish Academy of Sciences, Institute of Animal Physiology
and Nutrition, Jabłonna near Warszawa, Poland (Director: prof.
dr. J. Kielanowski); Department of Endocrinology (Head:
prof. dr. E. Domanski).

Dobrowolski, Z.

Dobrowolski Z.

Dobrowolski Z., Eng. "History of Arc Welding Development." (Historia rozwoju spawania lukowego). Przeglad Spawalnictwa, No. 3-4, 1950, pp. 67-76, 25 figs.

In chronological order, inventors' names quoted, circumstances, accompanying the origin and development of various arc welding methods are described. The author, who took part in the first application of the arc welding to locomotive boiler construction (1922), steel roof constructions (1925), the first all-welded 10 storeys building structure in Europe (1930) and other pioneer welding work, gives some new particulars on arc welding development in Poland.

SD: Polish Technical Abstracts - No. 2, 1951

DOPROWIENI, Zygmunt

DOPROWIENSKI, Zygmunt

Spawalnictwo. Wyd. Z. Warszawa, Fazetowe Wydawn. Techniczne, 1953. 403 p.
illus. 21 cm. [Gdansk. N. s., Will., alias]

SO: Monthly List of East European Accession, Library of Congress, Vol. 2, No. 10,
October 1953. Unclassified.

DOBROWOLSKI, Z.

Welding as a factor of technical-economical development in the production of mechanical equipment, p. 230, ZVARANIE, (Ministerstvo hutneho prumyslu a rudnych bani a Ministerstvo strojarstvo) Bratislava, Vol. 3, No. 8/9, Sept. 1954

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 4, No. 12, December 1955

DORROWOLSKI, Z.

621.781.657.2 : R21.003
4426
Dorrowski Z. Fabrication by Welding as a Factor Enhancing the Technical and Economic Indices In Machine and Mechanical Equipment Construction.

"Spawalnictwo jako czynnik wzrostu wykazów techniczno-ekonomicznych w budowie maszyn i urządzeń mechanicznych". Przegląd Spawalnictwa, No. 3, 1951, pp. 98-103.

The author emphasises the importance of welding processes in modern machine and mechanical equipment production and refers to the advantages and savings which can be achieved by replacing riveted constructions, castings and forged machine parts by welded constructions. He describes new welding methods which open up to designers increasing opportunities for effecting savings in materials and production costs; he also draws attention to the need for close cooperation in this matter as between designer and technologist. Examples are quoted of savings already achieved as a result of the adoption of welding technique in the construction of machines and mechanical equipment. The author also deals with the importance of welding practice for repair work, and the production of constructions from designs. In the course of a review of the development, organisation and research relating to welding practices in Poland, the author advances a number of suggestions calculated to promote further progress.

Z. J. G.

DO NOT PUBLISH

Theoretical Fundamentals of classification in welding. Tr. from the Polish.
p. 246. ZVARACOVY SPORNIK. (Slovenska akademie vied) Bratislava. Vol.
4, no. 2, 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

DOBROWOLSKI, Z.

New standards for the marking of welds on industrial drawings, p. 641

MECHANIK Warszawa, Poland Vol. 32, no.8, Aug. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2,
Feb. 1960
Uncl.

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DOBRZOWOLSKI, Zdzislaw, ins.

A new electric locomotive of the Polish State Railroads. Przegl
kolej mechan 14 no.3:73-74 Mr '62.

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CIA-RDP86-00513R000410710001-7"

DOBROWSKI, K.

Researches on the diurnal rhythm in some species of water birds. p. 1

EKOLOGIA POLSKA, SERIA A. (Polska Akademia Nauk. Komitet Ekologiczny)
Warszawa, Poland
Vol. 7, no. 2, 1959

Monthly List of East European Accession (EEAI) LC, vol. 9, no. 1, Jan. 1960

Uncl.

DOBROZEMSKY, J.

"Influence of operational changes on the steam superheater."
ENERGETIKA, Praha, Czechoslovakia, Vol. 9, no. 3, March 1959

Monthly List of East European Accessions Index (EEAI), Library of Congress,
Vol. 8, No. 8, August 1959

Unclassified

DOBROZEMSKY, Jaroslav, doc. inz.

Calculation of combustion process in pulverized coal furnaces.
Sbor VSB Ostrava 9 no. 6:895-919 '63.

1. Chair of Power Engineering, Higher School of Mining,
Ostrava.

KHALILOV, A.Kh.; SALAYEV, E.Yu.; DOBROZHANSKIY, G.P.

Studying the effect of visible radiation on the spectra of auxiliary absorption of certain monocrystals. Izv.AN Azerb. SSR.Ser.fiz.-mat.i tekhn.nauk no.4:35-41 '59.

(Radiation) (Chlorides--Spectra) (MIR 13:2)

S/123/61/000/015/008/032
A004/A101

AUTHOR: Dobrozrakov, D. V.

TITLE: Gang machining at the Voronezhskiy mashinostroitel'nyy zavod
(Voronezh Mechanical Engineering Plant)

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1961, 1, abstract
15B3 (V sb. "Gruppovaya tekhnol. v mashinostr. i priborostr.",
Moscow - Leningrad, Mashgiz, 1960, 114-116)

TEXT: The author reports on a method of compiling a component classifier.
The community of the technological process and the geometrical shape of the parts
were the main parameters for the unification of the parts in gangs. 5,396 draw-
ings out of 5,736 were selected to be united in 282 groups. In some cases the
labor consumption of machining was reduced three times. 67.5% of the whole
nomenclature of components of machines produced by the plant are machined by the
gang method in the blanking and mechanical shops. There is 1 figure.

[Abstracter's note: Complete translation]

I. Briskman

Card 1/1

DOBROZRakov, O., starshiy inzh.

At the plants of the Moscow region. Okhr.truda i sots.strakh.
5 no.1:28-29 Ja '62. (MIRA 15:2)

1. Dom tekhniki Mosoblssovnarkhoza.
(Moscow Province--Founding—Hygienic aspects)

Dobrozrakov, O.I.

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PHASE I BOOK EXPLOITATION

SOV/1440

Nauchno-tehnicheskoye obshchestvo mashinostroitel'noy
promyshlennosti. Leningradskoye oblastnoye pravleniye

Lit'ye povyshennoy tochnosti (High-precision Casting) Moscow,
Mashgiz, 1958. 196 p. (Series: Its: Sbornik, kn.45)
7,000 copies printed.

Ed.: A.N. Sokolov; Tech. Ed.: L.V. Sokolova; Managing Ed. for
Literature on Machine-building Technology (Leningrad Division,
Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for engineers and technicians at
foundries and planning and research institutes.

COVERAGE: The book contains the transactions of a special
conference called in November, 1956, by the Leningrad Oblast
Administration of the Nauchno-tehnicheskoye obshchestvo NTO
(Scientific and Technical Society of the Machine-building
Industry). The articles describe advanced techniques used in

Card 1/5

High-precision Casting

SOV/1440

precision-casting processes such as shell molding, investment casting, pressure die casting, press die casting (called in Russian "forging of liquid metal"), and suction casting. Special attention is given to the production of large precision castings, one of the principal problems in the industry. At the same time, methods of improving the precision of sand-mold castings are examined. Experience gained in the mechanization of precision-casting and shell-molding processes is reported. Information is given on the present state of precision casting, both in the USSR and elsewhere. No personalities are mentioned.

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~~DOBROZRAKOV, O.I.~~

Casting iron in shell forms. [Izd.] LONITOMASH 45:55-60 '58.

(MIRA 11:6)

(Shell molding (Founding))